

# TRUMP E.O. BLOCKS TWO FROM MIT

*Rahmati, Atieh  
unable to return  
after going home*

By Katherine Nazemi  
EDITOR IN CHIEF

Two undergraduates are unable to return to campus after an executive order issued Jan. 27 by President Donald J. Trump barred nationals of seven predominantly Muslim countries from entering the U.S.

Niki Mossafer Rahmati '18 and Fadi Atieh '20, from Iran and Syria, respectively, have been denied entry to the U.S. despite both having current, valid student visas.

Rahmati was not permitted to board a connecting flight in Doha, Qatar while traveling back to MIT from visiting her family in Iran; Atieh was attempting to check into his flight online when he received a pop-up stating: "admission refused to visitors with a passport issued by Syria."

The ban will hold for 90 days and applies to all nationals of Iran, Iraq, Libya, Somalia, Sudan, Syria, and Yemen. The executive order also indefinitely bars Syrian refugees from entering the country, and suspends entry of all other refugees for 120 days.

According to MIT registrar enrollment statistics for graduate and undergraduate students, there are currently 38 MIT students from Iran, five from Syria, one from Iraq, two from Sudan, and one from Somalia. These students will be unable to leave the U.S. until the ban is lifted without running the risk of being barred from returning.

On Feb. 29, the Massachusetts federal district court issued a temporary order preventing the government from detaining or removing those with a valid visa or green card traveling from the seven countries to the U.S. through Logan Airport. The order will be in effect until Feb. 5.

After being prevented from boarding her connecting flight, Rahmati returned to her home in Tehran. In a Facebook post Jan. 30, she said she

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LENNY MARTINEZ—THE TECH

Protesters gather in Copley Square this past Sunday to protest President Trump's recent executive order temporarily restricting immigration from some countries

## Hundreds gather in Lobby 7 *Students join thousands at Sunday's Copley protest*

By Emma Bingham  
STAFF REPORTER

Several hundred MIT community members met in Lobby 7 Sunday before participating in a larger protest in Copley Square against the ban on travelers from seven Muslim-majority countries.

An email from Provost Martin A. Schmidt, Chancellor Cynthia Barnhart PhD '88, and Vice President for Research Maria Zuber encouraged the MIT community to attend the rally in Lobby 7 in order to "join in a show of support for MIT's values."

The Lobby 7 rally, which was coordinated by the MIT Democrats, featured poster-making sup-

plies, voter registration materials, and snacks.

An email from faculty chair Krishna Rajagopal invited all faculty members to attend the rally. He shared his "deep concern" that travel for MIT affiliates had been "curtailed in a sharp and uncertain manner."

MIT Democrats co-president Caroline Mak '18 and Chancellor Barnhart both spoke briefly at the rally. Barnhart thanked everyone for coming and said that MIT plans to work hard to bring all affected students back to campus.

Chancellor Barnhart herself did not attend the protest in Copley; she said she stayed behind to keep in touch with the international stu-

dents affected by the travel ban.

Around noon, people set out from Lobby 7 toward Copley Square, walking in a large clump across Harvard bridge.

Thousands of protesters from all around the Boston area packed the Copley Square plaza and the surrounding streets. "No hate, no fear, immigrants are welcome here!" they chanted.

Protest organizers and guests spoke from the steps of Trinity Church. These speakers included Senators Elizabeth Warren and Ed Markey, CAIR Massachusetts executive director John Robbins, and Cambridge City Councilman and MIT alumnus Nadeem A. Mazen '06.

## Schmill: executive order will not change MIT's admissions process

Mahmoud Hassan, a Syrian student admitted to the class of 2021, told CNN he is worried that President Donald J. Trump's executive order on immigration will prevent him from attending MIT this coming fall.

"It is hard to know what will happen," Stu Schmill '86, Head of Admissions, told *The Tech* in an email, "but I hope that we'll be able to enroll the most talented students from around the world just as we always have."

The executive order indefinitely bars refugees from Syria from entering the U.S. and it suspends all refugee entrance for 120 days. Furthermore, the or-

der bars people from Iran, Iraq, Libya, Somalia, Sudan, Syria, and Yemen from entering the U.S. for 90 days.

While it remains unclear if students from these countries will be allowed unhindered entrance to the U.S., MIT does not plan to change its admissions process.

"We will reassure prospective students that we do not plan to change our processes and that we plan to continue to admit the most talented students from all over the world, and will work hard to make sure they can come and study at MIT."

— Karleigh Moore

## Reactions on campus *What students think about the exec order*

By Karleigh Moore  
EDITOR

*The Tech* interviewed students and staff in Lobby 10 Wednesday afternoon to gauge campus reaction to President Donald J. Trump's executive order on immigration.

Some community members we spoke to were not familiar with the executive order, some knew of it through sources like Facebook, and others appeared to have done substantial research.

"I think we should coordinate some kind of protest with the administration and the students here to let people in the government know that MIT is not going to accept this," said Marcus Powell '19.

Of those who addressed pro-

tests, only one woman, a Sloan fellow, thought that protests would be ineffective. She speculated that Trump enjoys the attention, even if negative.

Administrators apparently held with those who believe in the protests. Chancellor Cynthia Barnhart PhD '88 addressed a crowd of MIT community members in Lobby 7 last Sunday as students geared up to attend a protest in Copley Square. She said she was proud of the students for showing compassion and organizing in behalf of other community members.

*Tech* reporters in attendance estimated that 200 MIT community members were gathered in Lobby 7.

Reaction, Page 3

### MAKE MIT HOME AGAIN

One perspective on the E.O. **OPINION, p. 4**

### EXPERIMENTAL THEATER

One play, many endings. **ARTS, p. 8**

### BYE, IAP

No PNR, no fun. **FUN, p. 10**



### COPLEY PROTEST

Thousands attend. **PHOTO, p. 6**

### 5-STAR REVIEW

A mouthwatering read. **ARTS, p. 8**

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# Colder weather ahead

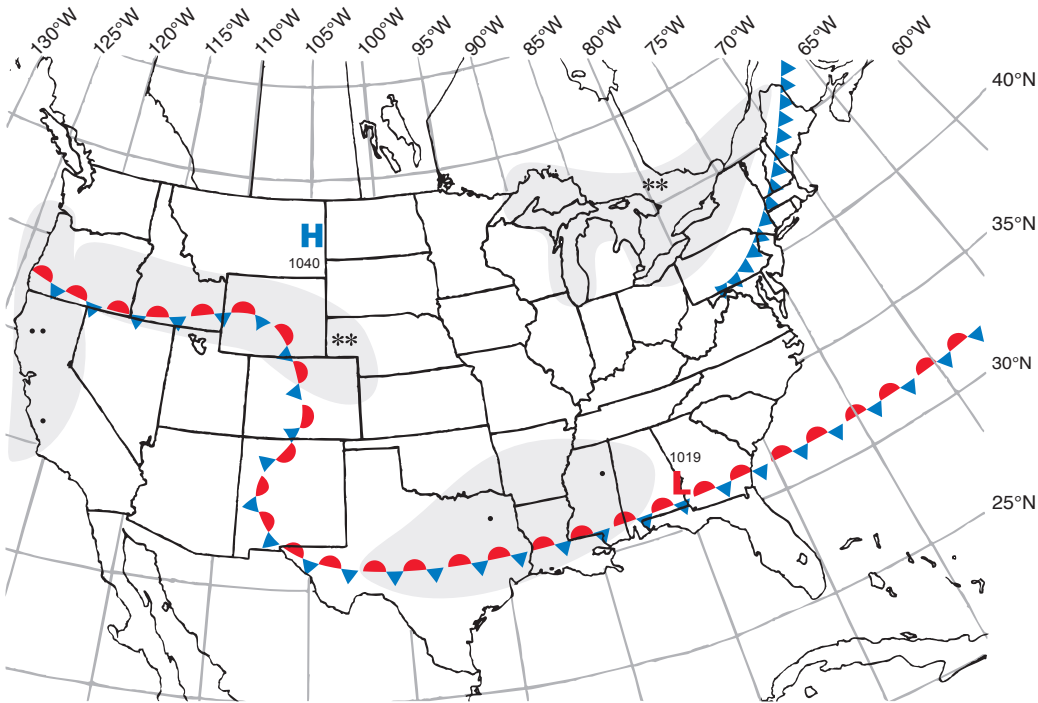
By **Costa Christopoulos**  
*STAFF METEOROLOGIST*

The low pressure system which brought snow to the area earlier this week continues to move off to the northeast. Behind the system, colder air from central Canada will filter in, bringing drier conditions and mostly sunny skies to Boston. This weekend, a colder plume of Arctic air will swing through New England. As the air mass settles in, highs will sit around the freezing mark and lows should dip below 20°F (-7°C). This month, NASA and NOAA released their first images from GOES-R, an advanced weather satellite launched last November. The instrument is

the first of a series of four satellites expected to revolutionize weather forecasting over the coming years. Orbiting 22,300 miles above Earth's surface, the satellite captures images over the continental US every 5 minutes. Relative to previous weather satellites, this represents a four-fold increase in spatial resolution and five-fold increase in temporal resolution. From severe weather and hurricanes to wildfires and volcanic eruptions, the new program will continue to provide a wealth of information for forecasters, researchers, and enthusiasts alike. Images are freely available to the public, and make for some spectacular desktop backgrounds.

### Extended Forecast

**Today:** Partly Cloudy. High 37°F (3°C). Winds west at around 10 mph.  
**Tonight:** Mostly Clear. Low 21°F (-6°C). Winds west at 5-8 mph.  
**Tomorrow:** Partly Cloudy. High 31°F (-1°C). Winds west at around 10 mph.  
**Saturday:** Partly Cloudy. High 29°F (-2°C).  
**Sunday:** Mostly Cloudy. High 33°F (1°C).



Situation for Noon Eastern Time, Thursday, February 2, 2017

Weather Systems	Weather Fronts	Precipitation Symbols	Other Symbols
<b>H</b> High Pressure	--- Trough	Snow * Rain ∇	≡ Fog
<b>L</b> Low Pressure	— Warm Front	Light * Moderate ** Heavy ***	⚡ Thunderstorm
§ Hurricane	▲ Cold Front		☁ Haze
	— Stationary Front		

Compiled by MIT Meteorology Staff and The Tech

**WE'RE SEEKING TO BUILD OUR FORCES**

**JOIN@TECH.MIT.EDU**

# 47 may be affected

## Future of exec order is uncertain

Ban, from Page 1

booked a second flight to Boston through Frankfurt, Germany.

"I wasn't even allowed to check in to my flight," she wrote. "They're currently not letting anyone get on flights to the U.S., unless they have a Green Card or an American passport. The [court order] has apparently only helped those who were stuck in transit... or [Customs and Border Protection] in the U.S."

Atieh had a flight booked for Jan. 30 to Boston, originating in Beirut, Lebanon. Despite the denial of online check-in, he planned to head to Beirut in the hope that he might be able to get on board anyway.

Atieh had been in contact with MIT's International Students Office, the Admissions Office, and immigration attorneys, from whom he obtained a copy of the court order.

"Everybody is working hard to bring things back to normal but it's going to take a little bit of time," he wrote Jan. 29 in an email to *The Tech*. "The community at MIT is really supporting and really solid."

At press time, *The Tech* had not heard whether Atieh had been allowed to board his flight.

MIT administrators have been racing to get students back to campus before the court goes out of effect Sunday.

"We are pursuing all avenues to return MIT community members to campus," Chancellor Cynthia Barnhart PhD '88 wrote in an email to *The Tech* Feb. 2.

Barnhart said that MIT has

asked for assistance from the Massachusetts congressional delegation, that the Institute is engaged with federal customs and borders and homeland security agencies, and that affected students have been connected with legal and travel resources.

"I wish with all my heart that that I could say with certainty that these efforts will be successful," Barnhart wrote. "In this moment though, I can't. I am certain that we will not give up, and that we will keep pushing for their safe return."

Barnhart declined to discuss the specifics of Rahmati and Atieh's situations, whether they were currently en route to MIT, or who at MIT was currently working with them. "I believe that we should let those individuals decide if and how they want to share their stories with the public," she wrote.

Massachusetts Senator Elizabeth Warren took the Senate floor Jan. 30, asking senators to overturn the executive order. She showed a photograph of Rahmati and read aloud a portion of one of Rahmati's Facebook posts.

"This is who Donald Trump is trying to keep out of the country," Warren said incredulously after reading from the post.

Trump had previously called for a ban on Muslims entering the country.

"Donald J. Trump is calling for a total and complete shutdown of Muslims entering the United States until our country's representatives can figure out what is going on," his campaign said in a statement early in December 2015.

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JOSS BARRATT

**Dave Johns as Dan, Hayley Squires as Katie, Briana Shann as Daisy, and Dylan McKiernan as Dylan** in Ken Loach's *I, Daniel Blake*.

## MOVIE REVIEW

# Two lives intersect through empathy

Ken Loach and Paul Laverty present the film *I, Daniel Blake*

★★★★☆

# *I, Daniel Blake*

**Directed by Ken Loach**

**Screenplay written by Paul Laverty**

**Starring Dave Johns, Hayley Squires, Dylan McKiernan, Briana Shann, Sharon Percy**

## Now Playing

**By Ivy Li**

*STAFF WRITER*

The film *I, Daniel Blake* is a declaration. These words, spray-painted across the walls of a job center, capture the compelling story of 59-year-old carpenter Daniel Blake (Dave Johns) who is forced to fight for his welfare rights after a heart attack. Paralleling his struggles is the equally compelling story of single-mother Katie (Hayley

Squires) and her two children, Daisy (Briana Shann) and Dylan (Dylan McKiernan): the family was evicted from hostel for the homeless, and live in poor housing conditions in Newcastle.

Despite this depressing premise, there is humor in their desperate situations and much-needed warmth in the interactions between the characters and the inherent good nature of our protagonist, Dan. Stubborn and proud, generous and empathetic,

our titular hero holds the film together with his capacity for compassion.

Dan's relationship with Katie is founded on mutual empathy rather than on romance. They have both suffered setbacks in their own lives, yet they continue to struggle and make do with what they have. In this film, Dan's world is one he builds through his respect for other people and himself.

Each scene holds remarkable tenderness. With all the tragedy that these characters endure, the film would have been outright depressing if it weren't for the kindness of individuals and their small victories. Each small success is fleeting, but the happiness of living and sharing time with other people is what keeps the characters afloat.

Dan still has his flaws — his pride in taking care of himself leads to his reluctance to ask for help. We follow him through the film as he helps others generously, speaking out against injustice, and while he is just as entitled for help, he chooses to take action for his life in his own way, holding his moral dignity against the world.

For most of the film, Dan's character acts as a staunch anchor. While his shortcom-

ings — such as the inability to use a computer — hinder him, his stubbornness and willpower pull through. Yet in a memorable shot, we see Dan's vulnerability as Katie's daughter, Daisy, peers through the door mail slot of Dan's apartment and asks, in an earnest, quiet voice, why they couldn't help him after he had helped them for so many things. He opens the door and the two embrace warmly.

For such a powerful story, the latter half falls short — devolving into contrived plot developments that feel cheap rather than organic. While the case against social welfare programs is a relevant and meaningful cause, a more nuanced approach is sacrificed in favor of this overt social message.

The film lost the wondrous, subtle touch that was found in the earlier half of the film. Early scenes of dialogue exchanges felt less like filmed scripts than living human beings sharing their lives with each other. Like Daniel's carved wooden fish dangling from the ceiling, these characters are hanging somewhere in the air for someone to appreciate. I wish I could have appreciated them much more than I did.

## MOVIE REVIEW

## Broken ties with fries on the side

*The Founder* tells the story of how a single salesman McBuilt a fast food empire

**By Amy Fang**

“McDonald’s can be the new American church, and it ain’t just open on Sundays, boys,” declared *The Founder’s* Ray Kroc.

Yet another “based on a true story” drama film, *The Founder* chronicles the story of McDonald’s from a single diner into a national fast food corporation. The riveting, fast-paced film hit theaters on Jan 20.

This biographical film focuses on Ray Kroc (Michael Keaton), a hard-working salesman who specializes in selling milkshake makers. He and his wife lead a simple life, just making ends meet, but Kroc always wants more.

His life changes after he crosses paths with customers Maurice “Mac” McDonald (John Carroll Lynch) and Richard “Dick” McDonald (Nick Offerman), who are the owners of the McDonald’s diner. McDonald’s diner is known for their dedication to fast service and quality meals, illustrated through their pioneered Speedee Service System where families can eat in “thirty seconds, not thirty minutes.” In the film, the McDonald’s brothers perform immaculate quality checks on nearly every burger to assure that customers are always satisfied.

Ray immediately sees potential to turn McDonald's into a restaurant chain, but

the McDonald's brothers believe that doing so would go against the core values of their restaurant. However, after much discourse, the McDonald brothers finally allow Ray to franchise McDonald's, only under strict circumstances that any and all changes Ray wants have to go through the brothers first. Although Ray's capabilities to oversee new franchises are limited, he is enthusiastic to expand McDonald's and live his vision. *The Founder* documents Ray Kroc's journey as he successfully builds up his franchises to eventually acquire the entire McDonald's empire.

Surprisingly, what makes *The Founder* superb is its cinematography and unique director's choices. For example, the growing tension between Ray Kroc and Dick McDonald on the future of McDonald's is lightened extensively with both humor and wit. In a series of enraged telephone conversations, Ray is always the one hanging up on Dick although Ray is the employee. In one particularly heated discussion, Dick exclaims "You have a contract!" while Ray coolly responds, "Contracts are like hearts, they're made to be broken." Casting Nick Offerman, a well-loved actor best known for his deadpan style and dry humor on TV sitcom *Parks and Recreation*, as Dick was also no doubt a plus.

The soundtrack closely parallels the drama on screen, which has the effect of powerfully conveying feelings in more ways than one. Moments were made especially powerful with well-placed music,

★★★★☆

## *The Founder*

**Directed by John Lee Hancock**

**Starring Michael Keaton,  
Nick Offerman, John  
Carroll Lynch**

**Rated PG-13**

## Now Playing



DANIEL MCFADDEN

**Michael Keaton as Ray Kroc** in *The Founder*.



PHOTOGRAPHY BY LENNY MARTINEZ—THE TECH



Thousands gathered at Copley Square on Sunday to protest President Donald J. Trump’s recent executive order restricting immigration into the United States. The demonstration was organized by the Massachusetts chapter of the Council on American Islamic Relations. Speaking during the protest were Senators Elizabeth Warren and Ed Markey, Boston Mayor Marty Walsh, and Representative Joseph Kennedy III. Several hundred MIT students gathered for a rally in Lobby 7 before joining the protest.

# Copley Square Immigration Ban Protest









# Suvaai, offering rich rewards, demands a journey north

Head up Mass Ave from campus and you'll pass mainstays like Clover and Flour, trendy vegetarian spots like Life Alive and Veggie Galaxy, and the chic eateries surrounding Harvard. But it's worth the effort to keep going. The best ramen (Sapporo), pho (Pho House), and bagels (Bagelsaurus) on this side of the Charles line the quiet stretch between Harvard and Porter Squares.

Head on a little further still and you'll reach Suvaai. It's an unassuming spot — keep your eyes open for the red lights strung up in the window, guiding you in like an airport runway — but your endeavors will be rewarded with interest. Specializing in South Indian and Sri Lankan dishes, Suvaai offers up sumptuous subcontinental soul food for a price that won't make your eyes water — even if its punchy curries might.

Don't let the plastic-wrapped menus and table-tops mislead — this is as far as

you can get from the rushed, impersonal experience common to glorified fast food joints in busier areas. Which is a good thing, because the novella-length menu deserves careful, unhurried study. Suvaai would suit solo diners and date nights perfectly well, but I'd recommend going in a larger group and coordinating your order: tackling the dosas, rottis, and larger curries will involve some serious teamwork.

So what's good? Just about everything, as far as I can tell. But across-the-board quality doesn't mean you shouldn't try dishes unique to southern India and Sri Lanka, which are harder to find elsewhere. Eschew the noodles and tikka masalas, then, and delve into regional specialties like the dosas — deceptively light rice and lentil pancakes enveloping perfectly spiced potatoes and onions — and the app-sized Tamil Nadu specialty Gobi 65: weaponized balls of deep-fried cauliflower, with the taste and texture of hot wings, only better, obviously. And don't forget to ask for a rotti kotthu: mercilessly moreish morsels of torn-up rot-

# Suvaai

**2378 Massachusetts Ave, Cambridge**

**Tuesday – Sunday, 11:30 a.m. – 3 p.m.; 5:30 p.m. – 10 p.m.**

ti, sautéed with diced vegetables and eggs, served alongside split pea curry.

Some marginalia: I ate with a group of vegetarians, and the absence of meat and fish went completely unnoticed; the vegetarian options are both ubiquitous and a few dollars cheaper than their carnivorous equivalents. (And between the Gobi 65 and the paneer tikka, there are plenty of options that seem meatier than the real thing.) Also, the spice levels here are graded on a very different curve than what you might be used to: their “mild” is most people’s plenty-hot-enough, but they’re happy to adjust the

heat of your entire order to suit. Either way, it never hurts to have a lassi on hand just in case, and Suvaai's are as good as they come — rounding off the meal with richness.

Suvaai pulls off a rare trick: introducing you to a distinct, authentic regional cuisine with dishes so instantly appealing you immediately realize that, while you might be trying them for the first time, it most certainly won't be the last. There's nothing stealthy or unhealthy going on here — just a faithfully reconstructed, perfectly executed menu in unpretentious surroundings. In short, it's worth the trek.

## THEATER REVIEW

# If you don't like it, it's your fault

The Nora Theatre Company at Central Square Theater presents Alan Ayckbourn's *Intimate Exchanges*

## Intimate Exchanges

**Written by Alan  
Ayckbourn**

**Directed by Olivia D'Ambrosio**

## Central Square Theater

**Running Feb. 1 – 11, 2017**

Nine different characters. Sixteen different possible life trajectories. Over 10 hours of theatrical content. All of this managed by a cast of two: Sarah Elizabeth Bedard and Jade Ziane, who play all female and male roles, respectively.

*Intimate Exchanges* by Alan Ayckbourn is hardly your average play; it is composed of eight plays that each have two different endings. This structure leads to an immersive environment for the audience: they get to decide the ultimate fate of the characters.

*Intimate Exchanges* takes place in a suburb of London. In the beginning of the play, the audience is introduced to Celia Teasdale, the frustrated wife of an alcoholic headmaster, and Sylvie Bell, the simple girl who works for her. The opening scene presents the first decision of the play: Celia can either have a cigarette or continue on with her spring cleaning. Depending on the version of *Intimate Exchanges* you see, Celia's decision will lead to different consequences, causing a ripple effect and resulting in a dramatically different play.

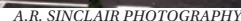
In the version that I saw, Celia, after an internal struggle broadcast to the audience as she hovers over the cigarettes and looks around, finally chooses the cigarette. She begins smoking in her garden until the young, strong Lionel Hepplewick enters. Lionel is the school's groundsman, and he wishes to work on Celia's garden. The scene is laden with sexual innuendos, and Lionel and Celia begin a bit of a romance.

Celia is not the only character to face decisions. In fact, Lionel is the next character who has to make a difficult choice when he must decide to reject or to go out with Sylvie, the Teasdales' help. In the play that I watched, Lionel and Sylvie go out, which initiates Sylvie's character transformation after Lionel calls her "complacent." Sylvie asks the Teasdales to educate her. Mr. Teasdale gives her books and tutoring, while Mrs. Teasdale teaches her how to look and dress like a lady. Ultimately, this causes her to develop a will and certain passions of her own.

Personally, I think that the most unique and engaging part of *Intimate Exchanges* was the unfettered audience interaction. In a democratic process, we voted on the general categories for the ending. I played a role in determining Sylvie's final fate; therefore, I felt like I paid extra attention during the final scenes to see how my decision was affecting her.

Audience intervention has a certain power because the audience can navigate decisions free of social consequences. Even though some might think that this would enable us to make negative or random choices without fear of consequence, it actually turns out that most of us aspire to be heroes, removing fear or selfishness from the decision-making process in order to achieve the best possible ending.

*Intimate Exchanges* also explored the na-



**Sarah Elizabeth Bedard as Celia Teasdale and Jade Ziane as Lionel Hepplewick** in *Intimate Exchanges*.

ture of decision making; the characters in the play, which are very much similar to your average person, never really face a clear right or wrong. Instead, they weigh their choices subjectively, so their decisions are more nuanced and harder to make.

The production and design teams for *Intimate Exchanges* did a fantastic job of amplifying the intimate environment of the play. Even though there were at most only two actors on the stage, the set and environment always felt complete and engaging. The invested and involved audience sits close by as the characters go through relatable struggles; therefore, the play truly feels like a confidential exchange.

I really enjoyed the feminist undertones

and overall theme of *Intimate Exchanges*, which was a resistance to being defined by a presumption or first impression. Sylvie's progression throughout the play presented an interesting depiction of how humans can deal with circumstances out of their control and mold their own fate through their decisions.

In Director Olivia D'Ambrosio's words, the play causes you to pose questions about "personal agency, regret, hope, and fate; about the circumstances we are born into and how they shape us; about the impact made on one person by the intrusion and inclusion of other people, and about the notion of parallel lives." Her portrayal of *Intimate Exchanges* was an "extremely advanced level of pretend" that was captivating and thoughtful.

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Solution, page 12

126x			288x		6+	11+		
	35x	13+				216x		18x
1		6÷	10+	16x			7	
180x				23+		21+		
	72x		48x				12+	
288x					216x			5
		21+				2		7
11+	6		108x			240x		
	40x				4-			8

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

## Here's The Scoop by Billie Truitt

Solution, page 12

## ACROSS

- 1 Knight's title
- 4 Otherwise
- 8 Lobster relative
- 12 Over 18
- 14 Knocks loudly
- 15 Extinct bird
- 16 Color variations
- 17 Luau instruments
- 18 Swindle
- 19 Vanilla/nut ice cream
- 22 USSR's CIA
- 23 Rebuke harshly
- 24 Emphatic agreement
- 26 Pampering treatment, for short
- 27 Assemble, as troops
- 29 Maple syrup source
- 32 Four-door car
- 34 Skiing surface
- 37 Radiate, as light
- 39 Puts in the mail
- 41 Impartial
- 42 Part of PTA: Abbr.

- 44 Ink spots
- 46 Crime lab evidence
- 47 Snug and warm
- 49 Clean air org.
- 51 "\_\_\_ be the day!"
- 53 Song segments
- 56 DVR button
- 57 Vanilla/chocolate ice cream
- 61 Island near Maui
- 63 1,760 yards
- 64 More pleasant
- 65 Quick haircut
- 66 Get ready, briefly
- 67 Gets taller
- 68 Come to a halt
- 69 Glances at
- 70 \_\_\_ sail (leave port)

## DOWN

- 1 Christmas Eve aviator  
2 "That makes sense"  
3 Vends used goods  
4 Go off like a volcano  
5 Canoeing spot

- 6 Blueprint detail, for short  
7 Opinion pieces  
8 DJ's collection  
9 Almond/marshmallow ice cream  
10 Old saying  
11 Flops on stage  
12 Wagering site: Abbr.  
13 Count in a quartet  
20 Sprints and marathons  
21 Butterfly catchers  
25 Egotist's top priority  
27 Macho  
28 Cancel out  
29 View from the shore  
30 Mornings, for short  
31 Green ice cream  
33 Money owed  
35 Brooch  
36 Historical period  
38 Tugboat sound  
40 Turn the wheel  
43 Newborn cow

		1	2	3		4	5	6	7		8	9	10	11
12	13					14					15			
16						17					18			
19					20						21		22	
	23								24		25			
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51	52							53				54	55	
56				57		58	59							60
61			62		63					64				
65					66					67				
68					69					70				

- 45 Parts of pogo sticks  
48 Losing streaks  
50 Have high hopes  
51 Jogs  
52 Valentine decoration  
53 Joe Biden and predecessors

- 54 Disney Florida theme park  
55 Large quantity  
58 Catastrophic  
59 Great joy  
60 Ambulance destinations:  
Abbr.  
62 Baseball arbiter




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# Frugal Innovations for a Developing World

## Bill Thies, Senior Researcher, Microsoft Research India

The benefits of novel technologies are often out of reach for the poorest billion on the planet. Instead of making things faster, bigger, and more futuristic, can we make things radically cheaper, simpler, and more inclusive? In this talk, I will describe some of our successes, failures, and lessons learned in deploying such "frugal technologies" in India over the past eight years. Drawing on projects in health, education, and citizen reporting, I will synthesize our experiences into a set of recommendations for anyone seeking to have social impact via technology.



Bill Thies is a Senior Researcher at Microsoft Research India, where he has worked since 2008. His research focuses on building appropriate information and communication technologies that contribute to the socio-economic development of low-income communities, a field known as ICTD.

Previously, Bill earned his B.S., M.Eng., and Ph.D. degrees from MIT, where he worked on programming languages and compilers for multicore processors as well as microfluidic chips. His distinctions include the John C. Reynolds Doctoral Dissertation Award, a CHI Best Paper Award, and a 2016 MacArthur Fellowship.

**Wednesday, February 8, 2017, 4:30pm, Stata Center, Kirsch Auditorium  
32 Vassar Street, Cambridge, MA - MIT Bldg. 32-123**

The Distinguished Lecture Series was renamed in memory of Michael Dertouzos, Director for the Lab for Computer Science from 1974 to 2001. A tradition since 1976, the series has featured some of the most influential thinkers in computer science, including Bill Gates, Steven Jobs, Donald Knuth, John McCarthy, and Mitchell Kapor. For more information: [www.csail.mit.edu](http://www.csail.mit.edu)

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